

Abstract

The invention relates to a power-assisted steering system or power steering system having an electric motor, which drives a worm gear mechanism that has a composite gear wheel in the form of a worm wheel, the worm wheel having a ring gear (4) connectible to a hub (3) via a first disk (2), and an annular projection (5) of the first disk (2) axially engaging with the ring gear (4).

In order to improve the centering of the component parts of the composite gear wheel (1) in the tangential direction, and in order to render the power transmission in the gear wheel (1) uniform, the annular projection (5) on the first disk (2) is provided with one or more depressions (6) in the axial direction to form tooth-like projections (5), which form a drive-type toothed section (10) and engage with depressions (7) on an axial side face (8) of the ring gear (4).

(Fig. 3)